

# CAL POLY

## REPORT

California Polytechnic State University, San Luis Obispo

Vol. 46, No. 14, Jan. 14, 1993

### Bio Sci's Cano wins research award

Dr. Raul Cano of the Biological Sciences Department has won a statewide award for his achievements in the study of prehistoric DNA as well as the development of molecular biology techniques to detect disease-causing agents such as salmonella.

Cano was selected by the Executive Committee of the California State University Program for Education and Research in Biotechnology (CSUPERB) to receive the 1992-93 CSU Biotechnology Faculty Research Award.

Cano has received worldwide recognition for his efforts in what he refers to as "molecular paleobiology" — the study of evolution from a molecular or genetic viewpoint. He and a microbiology graduate student were the first to extract uncontaminated DNA from a prehistoric fossil — a 25-million-year-old bee preserved in amber. From that ancient insect, they have also successfully cloned segments of the gene that helps cells make protein.

Cano is now trying to answer questions of evolution, looking for evidence of a "molecular clock" — the hypothesis that evolution takes place at a predictable rate over time. By measuring genetic differences between related organisms of different ages, he hopes to find out if there is a single clock or perhaps a clock for every gene.

Cano is also looking at genes more directly related to crops, with the goal of increasing a plant's heartiness and resistance to disease. He said it might be possible to bring back extinct genetic traits to enhance existing plants.

The second area for which Cano was recognized by the CSU biotechnology group was his research on pathogen detection.

The work, conducted at Cal Poly and in Spain, is expected to lead to new and better methods for detecting salmonella in food and for diagnosing gonorrhea and chlamydia.

Cano is the first Cal Poly professor to receive the annual award, established three years ago.

### State's top teachers include 3 alumni

Three of California's five Teachers of the Year for 1993, named by State Superintendent of Public Instruction Bill Honig, are Cal Poly alumni.

Those Cal Poly grads recognized for outstanding teaching are Paulette Bogetti, a 1974 mathematics graduate; Carmen Candelaria, who earned a bachelor's degree in accounting in 1974 and a teaching credential in 1978; and Dennis Jory, who earned a master's in education in 1969.

### Assistant selected for Cal Poly Arts

Cal Poly Arts has named an assistant to the director to help organize fund-raising events to support the university's arts programming. Sally Ann Magana will assist director Ron Regier.

Magana directed Cambria's youth center for six years and was a member of Supervisor Bud Laurent's North Coast Advisory Council. A commissioned portrait artist, Magana studied two-dimensional design at Cuesta College and graphic arts at Cal Poly.

### Gov. Wilson proposes 4.5 percent cut in CSU

The 1993-94 state budget proposed by Gov. Pete Wilson calls for a reduction of 4.5 percent (\$67.7 million) for the California State University. In addition, it reduces the current-year appropriation by \$16 million primarily to reflect a reduction in contributions to the retirement system.

The state appropriation proposed for the CSU is \$1,433,244,000. The CSU is currently budgeted for \$1,516,908,000. Under the governor's proposal, the current-year budget would be reduced to \$1,500,954,000.

In responding to the proposed budget, CSU Chancellor Barry Munitz said, "While it is disappointing to face yet another decrease in CSU funding, we understand the very difficult fiscal situation the state is in, and recognize that the governor's reductions were not as severe as they could have been. We are particularly grateful that the governor has given us a maximum degree of autonomy and flexibility in managing the university's resources."

Munitz said it is too soon to speculate on specific impacts. He said he will meet with key constituent groups and will provide policy options at the next trustees' meeting, scheduled for Jan. 26-27.

State appropriations to the CSU have declined from \$1.69 billion in 1990-91 to \$1.64 billion in 1991-92, \$1.5 billion in 1992-93, and now the proposed \$1.43 billion for 1993-94.

### Appointment

Thomas J. Ballew, a member of the faculty since 1975, has been appointed Architectural Engineering interim department head through December 1993.



### Play honoring King to be staged Jan. 15

Two presentations of "King to King," a play about the history of the civil rights movement in America, will be staged at Cal Poly on Friday, Jan. 15, in the Theatre.

Featuring students from the Al Wooten Heritage Center in Los Angeles and local schools, the play will begin at 11 am for school children and at 7 pm for the public.

The play was written by local businessman John Koger to honor Martin Luther King Jr. and King's dream of racial equality in America. Koger also will direct the play, a series of vignettes that depict such events as the Rosa Parks bus episode, restaurant counter sit-ins, and the civil rights marches of the early '60s.

Koger is director of Koger Kamp, which he founded to bring South Central Los Angeles youngsters and parents to San Luis Obispo.

The Wooten Heritage Center was founded by Los Angeles resident Faye Rumph after the drive-by shooting death of her son. The center works with young people to attempt to counteract the gang violence and hopelessness that engulf the South Central L.A. area.

"King to King" is co-sponsored by Cal Poly's Black Civil Engineers Club and Koger Kamp.

A donation will be requested for the evening program — \$5 for students and senior citizens, \$10 for others. Tickets are available at the Theatre Ticket Office between 10 am and 4 pm Monday through Friday. For reservations, call ext. 1421.

### Consumer revolt topic of presentation

A predicted consumer revolt will be the topic of a video presentation at 3 pm Friday, Jan. 15, in UU 220.

Geared to business owners and employees as well as consumers,

the presentation will cover consultant Faith Popcorn's belief that a "socioquake" will soon transform mainstream America. The video will deal with current trends and techniques such as "trend-bending" to adapt products and services to fit emerging trends.

After the videotape, participants will discuss the local impact of Popcorn's predications.

Popcorn, owner of the consulting firm Brainreserve, predicts a "consumer revolt will penetrate every cash register, corporation and household in America." Brainreserve provides consulting services to many large companies including American Express, IBM, Nissan, Pillsbury, and Proctor and Gamble.

Co-sponsored by the California Home Economics Association and Cal Poly's Home Economics Department, the presentation costs \$10, payable at the door. Home economists can earn three professional development units.

For more information, contact Candia Varni at Allan Hancock College, 922-6966, ext. 3243, or 928-7495.

### Peer health educators needed for 1993-94

Faculty members are asked to let students know that the Health Education Program is accepting applications for peer health educators for the 1993-94 academic year. Students interested in the health professions are encouraged to apply.

After completing a training program, peer health educators help plan and produce creative health-promotion activities on campus and in the community.

The programs concentrate on four areas: alcohol and drug awareness, lifestyle wellness, nutrition, and sexuality education. Applications and additional information are available at the Health Center. The deadline to apply is Jan. 29.

### Music Department sets faculty recital

The premiere of a new work for solo piano and a major piece by Igor Stravinsky will highlight the Music Department's annual faculty recital at 8 pm Saturday, Jan. 23, in the Theatre.

The master of ceremonies will be music professor Craig Russell.

Opening the recital with C.P.E. Bach's Trio Sonata for Flute, Oboe, and Continuo will be music faculty members Frederick Lau, flute; Stuart Horn, oboe; Susan Azaret Davies, harpsichord; and Clifton Swanson, double bass. Next, piano instructor William Spiller will play a new work by fellow faculty member John Russell, a new work for electronic tape by faculty member Antonio Barata will be played, and Davies and Spiller will play selections from "Carnival of the Animals" with Alyson McLamore narrating poetry by Ogden Nash.

Stravinsky's 50-minute piece "L'Histoire du Soldat ("A Soldier's Tale") will be conducted by faculty member Michael Nowak. Participating faculty members include Swanson, double bass; Virginia Wright, clarinet; Andrew Malloy, trombone; Ross Sears, percussion; Thomas Davies, tenor; and McLamore returning as narrator.

Guest artists for the piece will be Los Angeles-based violinist Kathy Lenski; Michelle Grego, bassoon; and David Searfoss, trumpet. John Battalino, a physician at the California Men's Colony and an actor with the San Luis Obispo Little Theatre, will play the Devil.

Tickets for the recital cost \$4 to \$10 and are available at the Theatre Ticket Office between 10 am and 4 pm Monday through Friday. For reservations call the Anytime ArtsLine at ext. 1421.



## Cellist to open Cal Poly Arts series

In an exclusive California engagement, award-winning cellist Christopher Costanza will open the Cal Poly Arts Ratcliffe Debut Series at 8 pm Saturday, Jan. 16, in the Theatre.

Accompanied by pianist Joanne Pearce-Martin, Costanza will play Sonata in C major, Op. 102 by Beethoven; Sonata in C major by Prokofiev; Sonata for Violoncello Solo by Hindemith; "Four Pieces" by Frank Bridge; and "Chanson Villageoise" and "Elfentanz" by David Popper.

Winner of the 1986 Young Concert Artists International Auditions, Costanza attended the Eastman and Manhattan schools of music and earned a bachelor's degree and artist diploma from the New England Conservatory of Music. He has performed with orchestras on both coasts and has given numerous recitals.

The Ratcliffe Debut Series is designed to provide a showcase for young artists just making a name for themselves on the international stage.

Tickets are on sale at the Theatre Ticket Office from 10 am to 4 pm Monday through Friday. Phone reservations may be made with Visa, MasterCard or Discover cards. For ticket reservations or more information, call the Anytime ArtsLine at ext. 1421.

## Colorful folk ballet to perform Jan. 19

The dance, music and color of Khadra, San Francisco's International Folk Ballet, return to the Cal Poly Theatre at 7:30 pm Tuesday, Jan. 19.

The show, a benefit for the Foundation for the Performing Arts Center, is an international theatrical celebration.

Khadra's bold interpretations of folk material in a skillful blend of dance, live music and authentic

costumes are designed to delight all audiences. The company's unique style combines folk, ballet and character dance.

The five members of the Khadra Orchestra play a variety of authentic instruments including the accordion, recorder, drums, guitar and bagpipes.

Premium tickets for Khadra's performance are \$9 for the public and \$7 for students and senior citizens. Preferred tickets are \$7 for the public and \$5 for students and seniors. For reservations, call the Anytime ArtsLine at ext. 1421. Tickets can be bought at the Cal Poly Theatre Ticket Office between 10 am and 4 pm Monday through Friday.

## Recreation facilities open to faculty, staff

The following recreation facilities are available to faculty and staff members who buy a quarter pass for \$14 or a day pass for \$1:

### Crandall Pool

Monday-Friday, 6:15 to 8 am

Family Swim - Friday, 5 to 7 pm

### Outdoor Pool

Monday-Thursday, noon to

2 pm and 7 to 9 pm

Friday, 11 am to 2 pm

Saturday and Sunday, noon to 3 pm

### Weight Room

Monday-Friday, 11 am to 1 pm

Monday-Thursday, 6 to 10 pm

Friday, 6 to 9 pm

Saturday, 2 to 6 pm

Sunday, 4 to 8 pm

The outdoor tennis and basketball courts are available when not in use by Physical Education, Athletics, Intramural Sports or special events.

Passes can be bought at the Rec Sports Office, UU 119. Faculty and staff members must show a current Cal Poly ID before using the facilities.

## Medical research workshops offered

Two medical research workshops are scheduled in Room 202 of the Kennedy Library — one from 9 to 10:30 am on Friday, Jan. 22, the second from 9 to 10:30 am on Friday, Feb. 5.

The workshops, taught by Lynn Gamble and Eileen Pritchard, will focus on Medline, the National Library of Medicine database for journal articles. Information on Medex and GenMed will be included.

All three databases are accessed through Lexis-Nexis services, an on-line search system available to Cal Poly faculty members and students. On-line medical searching is the fastest and most current way to search for information, both documentation for research projects and current information on treatment of medical conditions.

The Medline database covers basic medical and clinical research and related areas including psychiatry and psychiatric conditions, dental and nursing information, drug and chemical information, toxicology, veterinary information, hospital and health care administration.

Enrollment is limited. Reservations can be made by calling Pritchard at ext. 2403.

## Dateline. . . .

(\$ - Admission Charged)

**THURSDAY, JANUARY 14**

**Film:** "Shoot the Piano Player" by Francois Truffaut. Palm Theatre, 7 pm. (\$)

**FRIDAY, JANUARY 15**

**Open House:** Multicultural Center's 11th anniversary open house. Chumash, 9 am.

**Play:** "King to King" commemorating the 25th anniversary of the assassination of Martin Luther King Jr. Theatre, 11 am and 7 pm. (\$)

**Last day to drop a class.** Use the CAPTURE drop-only line, ext. 7888.

(Continued)



### ...Dateline

#### SATURDAY, JANUARY 16

**Men's Tennis:** Santa Clara University, Tennis Courts, 2 pm.

**Concert:** Cellist Christopher Costanza will perform as part of the Ratcliffe Debut Series. Theatre, 8 pm. (\$)

#### SUNDAY, JANUARY 17

**Men's Tennis:** Santa Clara University, Tennis Courts, 10 am.

**Speaker:** Author William Hanchett will discuss "A New Perspective on the Assassination of Lincoln." Library 202, 2 pm.

**Wrestling:** Cal State Bakersfield, Mott Gym, 5 pm. (\$)

#### MONDAY, JANUARY 18

**University Holiday:** Martin Luther King Birthday observed. Campus closed except for needed emergency services.

#### TUESDAY, JANUARY 19

**Performance:** Khadra international folk ballet and orchestra will perform. Theatre, 7:30 pm. (\$)

**Speaker:** Lauren Seiler (City University of New York) will discuss "The Death of Books?" as part of the Lyceum series. UU 207, 7:30 pm.

**Last day to add a class.** Call CAPTURE, ext. 7777, to add or list classes. Add requests will be accepted at the Academic Records office for five working days after the deadline (until Jan. 26), but the form must be signed by the instructor by today.

**Last day to submit an audit petition.**

**Last day to register for winter quarter and pay fees.**

**Last day to withdraw from the quarter and qualify for a refund of registration fees.**

#### THURSDAY, JANUARY 21

**Speaker:** Artist Rupert Garcia will talk in conjunction with Thomas Kidd's Galerie exhibit. UU 220, 11 am.

**Film:** "Jules and Jim" by Francois Truffaut. Palm Theatre, 7 pm. (\$)

**Women's Basketball:** UC Riverside, Mott Gym, 7:30 pm. (\$)

#### SATURDAY, JANUARY 23

**Women's Basketball:** Chapman College, Mott Gym, 7:30 pm. (\$)

**Recital:** Music Department faculty recital. Theatre, 8 pm. (\$)

nounced in this column and are posted outside the respective offices. Contact those offices (State: Adm. 110, 805-756-2236 — Foundation Administration Building, 805-756-1121) for applications and additional position details. Both Cal Poly and the Foundation are subject to all laws governing affirmative action and equal employment opportunity. Cal Poly hires only individuals lawfully authorized to work in the United States. All eligible and interested persons are encouraged to apply. Applications must be received by 5 pm or postmarked by the closing date.

#### STATE

**CLOSING DATE:** January 27, 1993

**Clerical Assistant III, Computer Science,** \$1891-\$2240/month.

**Supervising Building Services Engineer, Facility Services** \$3078-\$3534/month.

**CLOSING DATE:** February 24, 1993

**Pre-Doctoral Internship, Psychological Services,** \$1250/month (\$15,000/annual) with benefits; 2 temporary 12-month positions beginning Aug. 2, 1993.

#### FOUNDATION

**CLOSING DATE:** Jan. 22, 1993  
**Department Secretary,** \$1880-\$2284/month. Foundation Administration.

**CLOSING DATE:** Jan. 29, 1993  
**Director of Corporate/Foundation Relations,** \$40,000-\$50,000/year. University Relations and Development Office.

**Assistant Director of Alumni Relations,** \$2235-\$2671/month. Alumni Relations.

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The university is seeking candidates for positions on the faculty. Those interested in learning more about the positions are invited to contact the appropriate dean or department head. Salaries for faculty are commensurate with qualifications and experience (and time base where applicable), unless otherwise stated. This university is subject to all laws governing affirmative action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. Cal Poly hires only individuals lawfully authorized to work in the United States. All eligible and interested persons are encouraged to apply.

**CLOSING DATE:** Feb. 12, 1993

**Tenure Track Positions (full-time), Construction Management.** Possible positions for 93-94 AY. Duties and responsibilities include undergraduate teaching in areas of construction methods and techniques, concrete technology, mechanical, electrical and plumbing construction operations management and safety. Participation on university, college and department committees and academic advising expected. Ph.D. in construction management or related field preferred. (master's degree required). Previous teaching experience preferred for associate and professor ranks. Positions require a minimum of 5 years of competitive U.S. construction experience in a management role and the ability to communicate effectively with students and faculty.

**Lecturers (full-time), Construction Management.** Possible positions for 93-94 AY. Duties and responsibilities include undergraduate teaching in areas of construction methods and techniques, concrete technology, mechanical, electrical and plumbing construction practices, estimating, scheduling, cost control and construction operations management. Participation in university, college and department committees and academic advising expected. Master's degree in construction management or related field required and previous teaching experience preferred. Positions require minimum of 5 years competitive U.S. construction experience in a management role and the ability to communicate effectively with students and faculty.

**CLOSING DATE:** April 1, 1993 or until filled

**Tenure Track (full-time), Industrial Engineering.** Contingent upon budget, position available September 1993. Ph.D. in manufacturing engineering or industrial engineering or closely related field required as well as demonstrated teaching competence. Recent relevant industrial experience and P.E. strongly preferred. Duties include teaching and research in broad spectrum of manufacturing engineering subjects. Preferred applicants will be qualified in two or more of the following areas: CAD/CAM systems, manufacturing processes, automation design and implementation, and design-manufacturing integration.

## Position Vacancies

Vacant staff positions at Cal Poly and the Cal Poly Foundation are an-